

Scanning UV/VIS Spectrophotometer

Features:

- * Environmental Deuterium lamp, preventing from Ozone inhalation.
- * Socket-Type Deuterium lamp and Tungsten lamp.
- * SiO₂ coating optical mirror, reduces the influence from outside.
- * GLP self-check function: check the wavelength accuracy and Photometry accuracy, provide test report and power-off protection.
- * Wavelength calibration, wavelength setting, change lamp source and dark current calibration automatically.



Basic Functions:

- * **Photometry**
Test Abs., Transmittance and Energy by fixed wavelength.
- * **Quantitative**
Linear fit and Linear fit through zero two modes
a. Coefficient, Standard Sample input and Standard Sample read three modes to establish standard curve.
b. Establish $A=K1 \cdot C+K0$, can search original data, graph curve, parameters settings.
c. Can save 240 group curves, can test 240 data in each curve.
d. Double wavelength, Triple wavelength test functions.
- * **Kinetics**
Used for time course scanning or reaction rate calculations $\Delta A/t$, can search all data.
- * **Multi-Wavelength**
Can test Transmittance and Abs. with 8 different wavelengths at most.
- * **Scanning**
User can set the scan range from 190nm to 1100nm to test the max. Abs. peak value, can do derivation, arithmetical operations to the graph.
- * **Biology**
DNA/Protein(Optional: UV, Lowry, BCA, CBB and Biuret)

Technical Parameters:

| Model | BK-S360 | BK-S380 | BK-S390 |
|---------------------------|--|---------|-------------------|
| Optical System | Single Beam, Grating 1200 lines/mm | | |
| Wavelength Range | 190~1100nm | | |
| Spectral Bandwidth | 1.8nm | 1nm | 0.5, 1, 2, 4, 5nm |
| Wavelength Accuracy | ±0.3nm | | |
| Wavelength Repeatability | ≤0.2nm | | |
| Photometric Accuracy | ±0.002A(0~0.5Abs), ±0.004A(0.5~1.0Abs), ±0.3%T(0~100%T) | | |
| Photometric Repeatability | 0.001Abs(0~0.5Abs), 0.002Abs(0.5~1.0Abs), ≤0.1%T(0~100%T) | | |
| Stray Light | ≤0.04%T@360nm; 220nm | | |
| Stability | ±0.001A/h@500nm | | |
| Baseline Flatness | ±0.0015A | | |
| Noise | ±0.0004Abs | | |
| Display | 65 thousand true color 7 inch TFT LCD (480*800) | | |
| Photometric Mode | T, A, C, E | | |
| Photometric Range | 0~200% T, -0.301~3.0A | | |
| Detector | Silicon Photodiode | | |
| Light Source | Deuterium Lamp, Tungsten Lamp | | |
| Input | Membrane Keypad | | |
| Output | USB-A*2 Print and data output USB-B Connect PC | | |
| Standard Accessories | 1cm glass cuvette*4, 1cm quartz cuvette*2, 1cm quadruple cuvette holder, scanning software | | |
| Optional Accessories | 1cm standard single slot cuvette holder, long optical path cuvette holder, cuvette, micro cuvette, test tube type absorber rack, solid sample holder, deuterium lamp, tungsten lamp, quadruple cuvette holder, printer, four-slot water bath type constant temperature absorption pool, X-Y Adjustable Micro Absorption Pool, single bath type constant temperature absorption pool, program-controlled thermostatic absorption pool seat, 8 racks, reflection accessories | | |
| Power Supply | AC 85~265V, 50/60Hz | | |
| Package Size(W*D*H) | 740*570*440mm | | |
| Gross Weight | 25kg | | |

Double Beam Scanning UV/VIS Spectrophotometer



Features:

- * Selectable scanning speeds: high, medium, low, maximum scanning speed is 1080nm/min.
- * 7.0-inch LCD touch screen with graphical interface for easy operation.
- * Excellent qualitative and quantitative analysis functions including GOTO, linear regression, direct concentration readout, and multi-wavelength testing.
- * Optional software enables PC connection for instrument operation via computer.
- * Large storage capacity, capable of storing 57,600 data sets.
- * Optional printer for real-time printout of measurement results(Bluetooth connection).
- * Error-free conversion between transmittance(T) and absorbance(A). Automatic correction of wavelength errors, automatic light source switching, and other functions.
- * Meets the latest pharmacopoeia requirements and features an audit trail function.

Technical Parameters:

| Model | BK-D2800G |
|---------------------------|--|
| Optical System | Double beam, grating 1200 lines/mm |
| Wavelength Range | 190~1100nm |
| Spectral Range | 1.8nm |
| Wavelength Accuracy | ±0.3nm |
| Wavelength Repeatability | ≤0.1nm |
| Photometric Accuracy | ±0.002A(0~0.5Abs), ±0.004A(0.5~1.0Abs), ±0.2%T(0~100%T) |
| Photometric Repeatability | 0.001Abs(0~0.5Abs), 0.002Abs(0.5~1.0Abs), ≤0.1%T(0~100%T) |
| Stray Light | ≤0.03%T @220nm, 360nm |
| Stability | ±0.0003A/h@500nm |
| Baseline Flatness | ±0.002A |
| Noise | 100%(T) ≤0.15%(T), 0%(T) ≤0.1%(T) |
| Display | 7.0-inch touch screen |
| Photometric Mode | T, A, C, E |
| Photometric Range | 0~200%T, -0.301~3.0A |
| Detector | Imported silicon photodiode |
| Light Source | Imported long-life xenon lamp and tungsten lamp(No need to adjust the light source after lamp replacement) |
| Input | Touch screen |
| Output | USB |
| Standard Accessories | 1cm standard single slot cuvette holder, 1cm glass cuvette*4, 1cm quartz cuvette*2 |
| Optional Accessories | Printer, scanning software, solid sample holder, microcuvette |
| Power Supply | AC 100~240V, 50/60Hz |
| External Size(W*D*H) | 466*365*220mm |
| Package Size(W*D*H) | 493*590*300mm |
| Net Weight | 12.5kg |
| Gross Weight | 16.2kg |